

## RECOMMENDATION ON AGRICULTURAL ACTIVITIES AFTER RECEDING FLOOD WATER

A high level ICAR technical committee met on 16.09.2008 at ICAR Research Complex for Eastern Region, Patna for **technical backup for seed and planting materials in crops, horticulture as well as in fish/aquaculture.**

### Identification of crops to be sown/planted after receding flood

The committee elaborately discussed the various issues related to the identification of the crops to be sown / planted after receding of flood, crop varieties recommended for the area and source of availability of seeds of the recommended varieties and preparation of Contingency Plan. The committee also discussed upon the areas of cooperation within ICAR and State Govt for implementation in the flood affected areas. The leader of the team informed that **letters have been sent to 27 different institutes under ICAR system and 17 SAUs with a request to reserve the seeds available at the respective centers for supply to the flood affected areas of Bihar.**

### Reserve of seeds for sowing after receding flood

Personal contacts have also been made with different organizations. Based on these contacts, **SFCI has agreed to reserve 1 lakh 5 thousand Quintals seed of wheat, 150 Q Lentil, 35 Q Rajma, 80 Q Palak, 200 Q Carrot, 40 Q Methi, 2.5 Q tomato and 200 Q of vegetable peas, provided order is placed within a week. Besides this, 10 Q seeds of Garlic free of costs and 10 Q onion seeds at subsidized rate of Rs. 250/- per kg have been reserved at NHRDF, Nasik.** Seeds of field pea, rajmah and masoor have been reserved with **IIPR, Kanpur**, seeds of vegetables by **IIVR, Varanasi, GBPUA&T, Pantnagar and CSAU&T, Kanpur.**

**The following crops/crops varieties are recommended for the flood affected areas after receding of the flood water.**

Crop varieties	Source
<b>Vegetables</b>	
<b>Onion</b> – N-53, Agrifound Light Red	NRC Onion & Garlic, Pune, NHRDF, Nasik
<b>Garlic</b> – Yamuna Safed-2, G-1, G-50, G-323, G-282	NHRDF, Nasik ; NRC for Onion & Garlic, Pune
<b>Cauliflower</b> – <b>Early Variety</b> : Patna early, Kuanri, Pusa Dipali, Pusa Katki <b>Mid Variety</b> : Aghani, Pusi, Patna Main,	IIVR, Varanasi ; IARI, New Delhi ; IARI Reg. St. Katrain ; IIHR, Bangalore ; ICAR-RCER, Ranchi Centre ; GPBU&T ; CSAUA&T ; NDU&T Faizabad ; PAU,

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Pusa Subhra

**Late variety** : Maghi, Snowking, Pusa Snowking-1, Pusa Snowball-16,

**Cabbage** -

Late and Mid : Late drum head, pusa drum head, pusa mukta, questo

**Radish** –

Pusa Himani, Pusa Chetki, Japanese white, Jaumpuri, Punjab ageti, Kashi sweta, Kashi hans

**Palak** -

Pusa Hareet, Al-green

**Methi**

PEB

**Coriander**

Pant dhania-1

**Carrot** -

Pusa Kesar, Pusa Meghali, Naintes

**Tomato**

DVRT-1, DVRT-2, H-86, Pusa Gaurav, Pusa Hybrid-1, Vaishali, Rupali, Pant-T3, Arka vikas, Utkal Pallavi, Pusa Hybrid-2, Pusa Hybrid-4, Uttkal Kumari, Swarn Baibhav, Swarn Naveen, Swarn Lalima

**Chilli**

Pusa sadabhar, Pusa Jwala, Pant C-11, Jawahar 218, /

**Capsicum**

California wonder, Bharat, Indira

**French Bean**

Swarn Priya, Swarn Lata, Arka Komal, Pant Anupama

**Vegetable Peas**

Arkel, Kashi Nandini (VRP-5), Kashi Uday (VRP-6), Kashi Mukthi (VRP-22), Azad-P1, Azad-P3, Pant Matar-2, Swarn Mukti,

**Cowpea**

VRCP-1, VRCP-2, VRCP-3, VRCP-4

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Ludhiana ; OUA&T, Bhubaneshwar ; UP Beej Nigam ; MAHYCO Seed Pvt. Ltd. ; Namdhari Seeds Pvt. Ltd. ; Bejo Sheetal Seeds Pvt. Ltd. ; Ankur Seeds Pvt. Ltd. ;

<b>Potato including TPS</b>	CPRS, Modipuram ; CPRS, Patna ; Directorate of Horticulture, Govt. of Tripura
<b>Wheat</b> K0307 (Satabdi), HD2824, HD2733, PBW443, PBW343, HUW468, HP1761 (Jagdish), NW1012, HW2045, DBW14, NW2036, NW1014, HP1744 (Rajeshwari), HP2643 (Ganga), RAJ3765, HD2888, MACH6145, KRL19	Directorate of Wheat Research, Karnal ; NSC ; SFCI ; Uttaranchal Beej Nigam ; U.P. Seed Corporation and SAUs.
<b>Pulses</b> <b>Lentil :</b> BR25, Arun, PL-406, PL77-12, Rajmah : PDR-14, DTL-62, HUL-57, KLS-218 <b>Peas :</b> Malviya-15, Adarsh, HUDP-15, Swati, Hariyal	IIPR, Kanpur; RAU, Pusa ; NSC ; SFCI ; UP Seed Corporation ;
<b>Rai</b> RAURDL02-01, RAURD1002, RAURD9403	RAU, Pusa, Bihar ; NRC Rapeseed & Mustard, Bharatpur
<b>Boro Rice</b> Gautam, Dhanlakshmi, Richaria, Prabhat, Pusa-834, Pusa-44	Directorate of Rice Development, Patna ; CRRI, Cuttack ; RAU, Pusa
<b>Fodder-</b> Berseem, Jai, Napier grass, Para-grass	IGFRI, Jhansi
<b>Seed spices</b> <b>Dhania</b> Rajendra Swati, Pant Haritima <b>Methi</b> Rajendra Kanti, HM444 <b>Mangrail</b> Rajendra Shyama, <b>Azwain</b> Rajendra Muni,	RAU, Pusa, Bihar ; NRC Seed Spice, Ajmer
<b>Tuber crops</b> <b>Sweet Potato</b> Rajendra Sakarkand-5,35, 43, 47, Cross-4, Subhadra <b>Misrikand</b> Rajender misrikand-2	RAU, Pusa, Bihar ; CTCRI, Thiruvananthpuram

## **Post Flood Management in Fruit Crops**

- Older trees of Mango, Litchi, Guava or Jack fruit that have become lop sided due to wilting of limbs/twigs should be pruned to make their top uniformed and balanced and spread with carbendazim (0.25%) + Mencozeb.
- To check rotting of roots copper oxychloride (0.3%) and streptomycin (0.025%) need to be applied in the root zone.
- All fruit trees which has suffered from flood for a period of 1-3 months must be painted with Bordeaux Paste (4:4:10) up to height of 5 feet.
- New planting in banana can be taken up from March onwards. The best time of planting of banana is June or start of the rainy season. High yielding varieties like Robusta, Grand Naine, Basrai need to be selected.

## **Post-Flood Fishery Management Measures**

1. Fishermen dependent for their livelihood on fisheries from rivers or confined waters need to be provided with fishing equipments like nets, boats etc. for continuing their livelihood practices.
2. Huge quantity of fingerlings will be required for post flood stocking of water bodies. These fingerlings supply can be provided by the following agencies by mobilizing the various private hatcheries in their respective states or from their own farms :
  - (a) Central Institute of Freshwater Aquaculture (CIFA), Bhubaneswar
  - (b) Directorate of Fisheries, Govt. of West Bengal, Govt. of Tripura, Govt. of Andhra Pradesh, Govt. of Uttar Pradesh and Govt. of Orissa
3. The fingerlings of India Major carps should be given priority for stocking as their availability is ensured in the various fish seed production units.
4. Repair of dykes or embankments of aquaculture facilities would need priority for initiating culture operations.
5. Sizeable quantities of the chemicals Mahua oil cake, lime and bleaching powder would be required for preparation of the various confined water bodies for fish culture operation.